PRESERVED

App. F. IX-4

Previous References (1934. 5 Ire)

File No. 196-34
Serial Nos. 1-3

Later References.

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. Three

Part B for feby 35 ~~January 35~~

SUBJECT.

Scheme for the manufacture of Electrical Appliances by Mr Maurice Fry-Dwani

D 5775-6 m2 d. 6.35
to Sin Ire Govt.

WD 01965—GPB—15,000—7-7-34

Sanction the Director's proposal to Continue the - up to 31.3.35
as it involves no extra cost

3808

Scheme of Manufacture of Electrical appliances

1

General and Revenue Secretariat

[App. F. III–2

Y/c File No. 196 of 1934

Serial No.	
1	From the Director of Ire Letter No D3-37/34-35 dt 9/2 In continuation of his letter dt 16/11/35 forwards copy of report dt 4/1/35 submitted by Mr. Frydman in the matter of preparation of scheme of Electrical appliances. recommends sanction to extend the period of Mr Frydman's scheme by three more months ie to end of March 1935. The proposals of the Director were that the time of six months granted to Mr Frydman to finish the scheme of manufacture of Electrical goods may be extended by three months. It is seen from Mr Frydman's report that there has been savings of Rs 2452 out of the total sum of Rs 9000 sanctioned for the scheme & it is proposed to utilise this sum for the period of extension. It is also proposed by the Director to put the articles manufactured in the market to find out their saleability. It is reported

(3427 Fin Secy 28.1.35)

Note–Contn. Sheet.

Scheme of Mr. Fyzman for preparation of Electrical goods

3888/V

S/L File No. 196 of 193 4

General and Revenue Secretariat

that Mr. Fyzman hopes to complete the assemblage of the parts & complete the manufacture of the articles, like Tumbler Switches, Ceiling Roses, Wall Sockets, in two weeks. The dies will take a month to be completed. Mr. Fyzman will utilise the savings so far effected. (up to 31-12-34) to prepare the dies & presses for bakelite parts required for the Scheme. No additional cost is involved.

(2) The proposal to sanction the continuance of the scheme up to end of March 1935 is for orders

Sec 18/2/35 MW 19/2

(3) As no extra expenditure is involved the proposal to continue the scheme upto end of March 35 is also approved

Dewey - 19/2 MW 21.2

5041 19/2

OFFICE OF THE FIRST MEMBER OF COUR 21 FEB. 1935 No. 6663

Ferrard

(4) Sec 23/2 MW 25/2

(S.) Draft Subd Sec 25/2 MW 26/2

Issue 26/2

D. 5775-6 of 28-2-35

3

Do - the Dir. Sec & the Comptr

Sanctions the proposal

Dr. 2/3

15 MAR. 1935

Rec 13/2

9 Ft. 196-34-1

I

Telegraphic Address:—"INDUSCOM."

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

In reply please refer to
No. D5—37/34-35
Encl. one

OFFICE OF THE DIRECTOR,

Dated Bangalore,....8th..February...1935..

9.2.35

FROM

A. V. RAMANATHAN, ESQ., B.A.,
Director of Industries and Commerce in Mysore,
Bangalore (India).

GEN. & REV. DEPT. 9 FEB. 1935 DEVELOPMENT BRANCH

TO

M. VENKATANARANAPPA, ESQ., B.A.,
Secretary to the Government of Mysore,
Development Department,
Bangalore.

63

Re. 181-33-23

3427

SIR,

In continuation of this Office letter No.D5.37/34-35 dated the 16th January 1935, regarding the Scheme for the Manufacture of Electrical Appliances by Mr. Maurice Frydman, I have the honour to forward herewith, for the information of Government copy of Report dated 29-1-1935 submitted by Mr. Frydman in this connection. It is seen from it that Mr. Frydman has manufactured all the dies and jigs required for making the metal parts of the several articles included in the programme. He has also received the porcelain parts for making Tumbler Switches, Ceiling Roses and Wall Sockets. He has placed an order for the supply of brass screws from Germany. They are expected in about 2 weeks and as soon as they are received Mr. Frydman will assemble the parts and complete the manufacture of Tumbler Switches, Ceiling Roses and Wall Sockets. They will also be put on the market to find out their salability.

As regards the other articles included in the programme, the dies for making porcelain parts are under manufacture. They will be completed in about a month. As soon as they are made they will be supplied to the Porcelain Factory and the Factory will deliver to Mr.Frydman the porcelain parts as early as possible. When these parts are ready Mr.Frydman will complete the remaining articles in the programme.

Mr.Frydman has explained why he could not complete the programme

as originally intended by him by 31st December 1934. This is partly due to the delay in the supply of power and partly to his inability to get the materials of the required quality in India. A considerable portion of his time was required for training the local labour. I would also bring to the notice of Government that instead of buying the equipment from outside firms he has prepared them here with the local labour.

According to the present arrangement, Mr.Frydman expects to complete the work by about the 31st March 1935. I therefore recommend that the period of 6 months originally sanctioned for the manufacture of electrical appliances may be extended up to 31-3-1935. From the statement of accounts furnished by him it is seen that there has been a saving to the extent of Rs 2,454-10-4 on 31-12-1934. For particulars, reference is invited to the statement of accounts furnished by him in his report. There was a saving under equipment, stocks and miscellaneous. He proposes to utilise this amount in completing the work by 31-3-1935. He will also utilise this amount to prepare dies and presses for bakelite parts necessary for this scheme. I request early orders of Government sanctioning my proposals. I have instructed Mr. Frydman to proceed with this work and to finish it on or before the appointed time.

I have the honour to be,

Sir,

Your most obedient servant,

DIRECTOR.

BV2

MAURICE FRYDMAN
CONSULTING AND ELECTRICAL ENGINEER

Copy

1

RACE VIEW
RACE COURSE ROAD
BANGALORE
29 th January.1935.

The Director of Industries and Commerce in Mysore,
Bangalore.

Dear Sir,

I have the honour to submit the report of my work during the six months of the second period sanctioned.

The following is the list of articles the manufacture of which had to be carried on during the second period.

Name.	Quantity.
Tumbler Switches	5000
Tumbler Switches with sockets	2000
Fuses	5000
Wall sockets	5000
Plugs	7000
Ceiling roses	5000
Terminal plates	5000
Dice Terminals	2000
Pole fuses	5000
Knife Switches	300

I had at my disposal an empty shed, without benches, machinery and power connections. Neither were available drawing tables for draughtsman nor racks for keeping the raw materials nor tool boxes for the workmen.

The first month had to be spent in organizing the workshop, erecting the benches and making the necessary workshop furniture.

Afterwards the manufacture of dies and jigs etc., was continued and simultaneously orders were placed with the

Central Industrial Workshop for the manufacture of machinery according to our designs.

The work was handicapped by the lack of power connections which lasted till December 25th 1934.

Dies and Jigs.

All the dies and jigs are completed, except for the pole fuse, as the Electrical Department did not give us samples, in spite of our request.

In the manufacture of dies we have come across considerable obstacle of having to train our labour in this very delicate kind of work.

In order to avoid waste we have used all through ordinary mild steel; special die steel is extremely expensive and would be wasted in the beginning. We have developed a process of case-hardening the dies, which gave us all the advantages of a glass-hard surface together with good cutting edges at a very cheap cost .

The preparation of the dies was the slowest and most difficult part of our work because of insufficient skill of the workmen and inadequate equipment.

Machine Tools:-

We have either repaired or built the following equipment.

Training of Workmen:-

We have put a considerable amount of time and effort in the training of workmen and very often, in spite of their satisfactory certificates we had to teach them the very rudiments of their craft.

We consider the creation of a workshop, which can undertake the manufacture of dies, moulds, and jigs as an achievement by itself.

An apprentice course was organised as the supply of trained workmen is very limited. More than 50 apprentices have been registered in the service book of the workshop and some of them have been trained enough to be entrusted with more responsible work.

Establishment:-

The establishment was limited to three persons only Mr. K.R. Chamarasekharaia, kindly lent by your Department was working efficiently all the time as my assistant. Mr. T.M. Ellappa was in charge of drawings and stock accounts, and Mr. S. Narasimha Iyengar was acting as the Secretary, the Accountant and the Cashier.

Factory organisation was planned out in the very beginning, so that the expansion of the work is absorbed smoothly and without any need for re-organisation. More intelligent apprentices are put in charge of different functions and trained for their future responsibilities.

Costing and Accounting:-

Thanks to a proper system of costing we are able to establish very accurately the exact own cost of every piece of work and also how every hour of the workman was spent.

New Designs:-

We are preparing other designs of electrical appliances to be made use of, for the extension of the manufacture will be undertaken. These are different types of hand-held and industrial switches, light controllers, fans, electric heaters etc. Our young electrical engineers of the Engineering College are working in this line under our guidance.

Bakelite Moulding:-

The paramount importance of moulding processes in the manufacture of electrical appliances makes us think well ahead about the necessity of including a moulding plant in the manufacture of electrical appliances

In order to train the workmen in the still more delicate task of making bakelite moulds and with your kind approval we have started making a few bakelite moulds and already submitted. Samples of the first mouldings to the Electrical Appliances Sub-Committee of the Board of Industries and Commerce together with a detailed plan of a small bakelite moulding plant.

The electrical appliances mounted on porcelain are steadily replaced in the market by bakelite articles.

which command the predilection of the customer and a better price because the moulded product is nonbreakable, light, allows [illegible] fastening of metal parts, gives a better appearance, can be of different colours, can be moulded to intricate shapes, and is cheaper than porcelain to manufacture.

We do not consider possible to develop the manufacture of electrical appliances if they have to be made in porcelain only. [illegible]

[illegible] of May 31st 1931 to have included a small asbestos plant.

Expenditure

Out of Rs 9000/- allotted, we have spent up to March 31st 1934, Rs 6545-5-8 as per the following heads.

Heads of Expenditure	Budget	Expenditure	Balance.
	Rs A P	Rs A P	Rs A P
ESTABLISHMENT.	1000- 0- 0	620- 6- 0	379-10- 0
LABOUR.	2000- 0- 0	1877- 8- 11	122- 7- 1
STOCKS.	2000- 0- 0	1550- 0- 6	419-15- 6
EQUIPMENT.	3000- 0- 0	2062- 9- 9	937- 0- 3
MISCELLANEOUS.	1000- 0- 0	495- 12- 8	504- 3- 4
TOTAL.	9000- 0- 0	6545- 5- 8	2454-10- 4

For the money spent we have shown you the following assets in our letter of the 16th instant.

MAURICE FRYDMAN
CONSULTING AND ELECTRICAL ENGINEER

RACE VIEW
RACE COURSE ROAD
BANGALORE

Raw materials	Rs	634-11-4
Semi-finished products	Rs	262- 6-3
Plant	Rs	579- 2-5
Tools and Jigs	Rs	766- 2-7
Machinery	Rs	2249-12-3
Workshop equipment	Rs	552-14-4
Electrical "	Rs	499- 4-0
Office "	Rs	179-11-1
Stocks "	Rs	423-14-1
Work in progress including cash on hand of Rs 12-11-8	Rs	397- 7-4
Total		

These data refer, of course, to the end of December 31st 1954.

Reasons for the delay:-

As to our inability to complete the work before the end of the year, it was due to following reasons.

(1) Complete lack of experience amongst the workmen and the staff. Workmen even with best certificates proved hopelessly inadequate when put to test. It was impossible to find trained workmen and I had to train all of them myself, which naturally involved slow work.

(2) Lack of proper facilities. I expected at the time of drawing up the scheme, that all facilities would be available free both in the Central Industrial Workshop as well as in the Engineering College. The Engineering College was closed for me with the beginning of the academical year; the Central Industrial Workshop were instructed not to allow me the free use of machinery. In order to save money, had to reduce my order to the Central Industrial Workshop to the minimum and to do many

things, by hand which involved further loss of time.

(3) Lack of proper materials. The stores in the local bazaars being insufficient I have been often compelled to write to Madras for trifles. As I could not purchase in large quantities, the delays involved were considerable.

(4) Considerable delays in the supply of things ordered, both from the Government enterprises as well as from private merchants.

(5) Lack of electric power till the very end of the year and the resulting impossibility to use the equipment prepared. Of these, points (1) and (5) were the most instrumental in delaying the progress of work.

The Programme for the next three months:-

The dies for the manufacture of the porcelain parts of the following articles are not available in the Government Porcelain Factory. We have offered to manufacture them locally at prices shown against each.

Dice Terminals:-

Single way	Rs 40
Double way	Rs 50
Triple way	Rs 60

Terminal Blocks:-

Two sets of dies	[illegible]

[illegible]

[illegible]	[illegible]

[illegible]

[illegible]	[illegible]

[illegible]

One set of dies	[illegible] 150

Total Rs 850/-

MAURICE FRYDMAN
CONSULTING AND ELECTRICAL ENGINEER

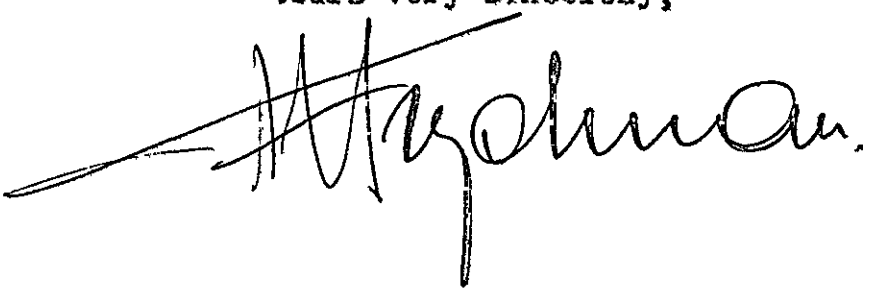
RACE VIEW
RACE COURSE ROAD
BANGALORE

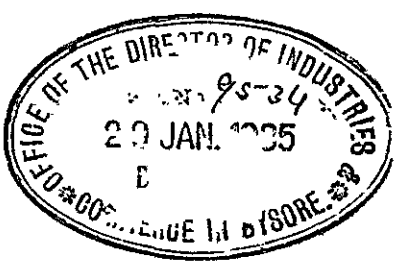
The dies will be made out of mild steel, case-hardened and [illegible]. The locator pins will be out of tool steel. All bearing surfaces will be case-hardened.

If our offer is accepted, it will take us about a month to complete the porcelain dies and since screws ordered through the Trade Commissioner in London will arrive in the machine, we will be able to proceed with the [illegible] of the articles. [illegible] for our Factory will require atleast [illegible] the porcelain parts after the receipt of the dies, we will [illegible] by the end of March to complete the scheme.

I hope, dear Sir, this report will meet with your approval and I am,

Yours very sincerely,





HKR 29/1

G. R. S. App. F VI—G 2]

SUBJECT .....

.....

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Diary. No of letter replied to .....

Section 9 + 2

File No. 196-37

Serial No. 3

General and Revenue Secretariat

( )

the 193 .

Proceedings of the Government of His Highness the Maharaja of Mysore.

Main file subject separated

Date of issue 23/7/1934 193 5.

(3427) (Jun dig 30.1)

Signed by .....

Read— G.O No D 414-15/Stc 181-33-8 dy 23rd July 1934 sanctioning the second stage of the scheme of manufacture of electrical appliance under the guidance of Mr. Maurice Frydman, for a period of six months from June 1934 and requiring the Director Stc to submit a detailed report at the end of the period, with the necessary profit & loss accounts & other statements.

2. Correspondence ending with letter No D3-37/34-35 dy 8.2.1935 from the Director of Stc reporting that for reasons explained Mr Frydman could not complete his programme of work

May this be—

(i) printed ?

(ii) treated as a standing order ?

(iii) published in the Gazette, English Part ?

(iv) translated ?

(v) placed at the disposal of the press ?

(vi) published in the Gazette, Kannada Part ?

11

by the end of December 1934 and ~~but~~ ~~expenses~~ it will take ~~and expenses~~ ~~Bek it would~~ ~~take~~ 3 more months for new work to be ~~in Dyddgen to be completed the same,~~ ~~thereon, and expenses but~~ ~~time has been a saving of~~ 2452 on 31-12-34 out of the ~~sanctioned~~ grant sanctioned for the Scheme, ~~during~~ ~~that the period of six~~ months sanctioned for the Completion of the Scheme may be extended by 3 more months i.e. upto 31st March 1935.

Order

In the circumstances, of the District of the proposal to continue the Scheme upto 31-3-35 is sanctioned as it involves no extra cost.

List of Enclosure

for Secy to Govt

Copied by

Examined by

To the Dy to Govt

WD 0185—GPB—15,000—13-8-34

12

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

Read:-

Government Order No. D. 414-15/I & C. 181-33-8, dated 23rd July 1934 sanctioning the second stage of the scheme of manufacture of -- electrical appliance under the guidance of Mr. Maurice Frydman, for a period of six months from June 1934 and requesting Director of Industries and Commerce to submit a detailed report at the end of the -- period with the necessary profit and loss accounts and other statements.

2. Correspondence ending with letter No. D.3. 37/34-35, dated 8th February 1935 from the Director of Industries and Commerce, -- reporting that for reasons explained Mr. Frydman could not complete his programme of work by the end of December 1934 and it will take 3 ~~months~~ more months for the work to be completed, that there has been a saving of Rs. 2,454/- on 31st December 1934 out of the grant sanctioned for the scheme and requesting that the period of six -- months sanctioned for the completion of the scheme may be extended by three more months i.e., up to 31st March 1935.

Order No. [illegible]

Bangalore, dated the 27th February 1935.

In the circumstances, the proposal of the Director of Industries and Commerce to continue the scheme up to 31st March 1935 is sanctioned as it involves no extra cost.

28/2

For Secretary to Government,
Development Department.

To

The Director of Industries and Commerce in Mysore.
" Comptroller to Government.

TRM.3